

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Hartig et al.

Serial No.: 10/759,971

Filed: January 15, 2004

Assignee: Cardinal CG Company



Examiner: Andrew T. Piziali

Group Art Unit: 1771

Attorney Docket: 44046.203.143.22

For: HAZE-RESISTANT TRANSPARENT
FILM STACKS

To: Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

) I hereby certify that this correspondence is being:
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- ☒ deposited with the United States Postal Service as first-class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.
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☐ hand delivered to the Patent and Trademark Office

on this 16th day of November, 2005

By

Joyce Thomas

STATEMENT OF SUBSTANCE OF INTERVIEW

Applicant's representatives would like to thank Examiner Piziali for extending them the courtesy of a personal interview on 27 September 2005 to discuss this case. The following recordation of the substance of the interview is believed to be complete and proper, as required by MPEP 713.04. It is requested that the Examiner notify the undersigned if the Examiner believes this statement of interview substance contains any material inaccuracies or if the Examiner believes this Statement is otherwise not complete and proper.

Interview participants: (1) Examiner Andrew T. Piziali; (2) Applicant's attorney, Eric J. Snustad; and (3) Applicant's attorney, John F. Dolan.

No exhibit was shown, and no demonstration was conducted, during the interview.

Claims 1-20 were discussed during the interview.

No agreement was reached during the interview.

The following prior art was discussed during the interview: Depauw U.S. 6,090,481

No amendments were proposed by Applicant's counsel during the interview.


Insofar as arguments made during the interview are concerned, Applicant's representatives noted that the Depauw reference fails to disclose the claimed thickness arrangement for dielectric layers in the intermediate dielectric stack. To the contrary, Applicant's representatives noted that the disclosure of Depauw tends to teach away from such thickness arrangements, as Depauw discloses the first, second, fourth, and fifth intermediate dielectric layers as being about the same thickness, which is said to be about half the thickness of the third intermediate dielectric layer.

Applicant's representatives also discussed the claims specifying that the claimed first dielectric is an oxide or suboxide and that the claimed second dielectric is a nitride. Applicant's representatives submitted that these claims are patentable in their own right because, among other things, without some motivation to alternate oxide and nitride layers, skilled artisans would wish strongly to avoid the complications associated with departing from the preferred all-oxide intermediate stack arrangement taught by Depauw and providing instead for both oxide and nitride layers to be deposited in the same intermediate stack. As examples of these complications, Applicant's representatives cited problems associated with using different reactive gases for different layers of the same intermediate dielectric stack, including having to change the gas atmospheres in the single chamber Depauw uses to deposit the dielectric layers when switching from depositing an oxide layer to depositing a nitride layer.

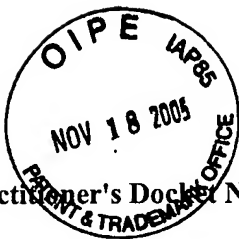
No other pertinent matters were discussed during the interview.

Respectfully submitted,

Dated: 16 November 2005


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Practitioner's Docket No. 44046.203.143.22

PATENT

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In re application of: Hartig et al.

Application No.: 10/759,971

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Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
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AMENDMENT TRANSMITTAL

1. Transmitted herewith is an amendment for this application.

STATUS

2. Applicant is other than a small entity.

EXTENSION OF TERM

3. The proceedings herein are for a patent application and the provisions of 37 C.F.R. 1.136 apply. Applicant petitions for an extension of time under 37 C.F.R. 1.136 (fees: 37 C.F.R. 1.17(a)(1)-(4)) for one month:

11/21/2005 HGUTENA1 00000005 10759971

Fee: \$120.00

03 FC:1251

120.00 OP

CERTIFICATION UNDER 37 C.F.R. §§ 1.8(a) and 1.10*

(When using Express Mail, the Express Mail label number is *mandatory*;
Express Mail certification is optional.)

I hereby certify that, on the date shown below, this correspondence is being:

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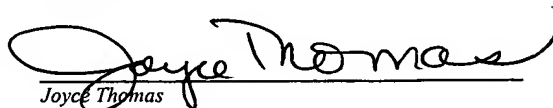
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37 C.F.R. § 1.8(a)
with sufficient postage as first class mail.

Date:

11/16/05

Signature


Joyce Thomas

* Only the date of filing (' 1.6) will be the date used in a patent term adjustment calculation, although the date on any certificate of mailing or transmission under ' 1.8 continues to be taken into account in determining timeliness. See ' 1.703(f). Consider "Express Mail Post Office to Addressee" (' 1.10) or facsimile transmission (' 1.6(d)) for the reply to be accorded the earliest possible filing date for patent term adjustment calculations.

FEE FOR CLAIMS

4. The fee for claims (37 C.F.R. 1.16(b)-(d)) has been calculated as shown below:

| | (Col. 1) | (Col. 2) | (Col. 3) | OTHER THAN A SMALL ENTITY | | | | |
|---|---|---------------------------------------|------------------|--------------------------------|---------------|----|--------|------|
| | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NO. PREVIOUSLY PAID FOR | PRESENT EXTRA | | | | | |
| | | | | RATE | ADDIT. FEE | | | |
| TOTAL | 23 | — 20 | = 3 | x \$ 50.00 | = | \$ | 150.00 | |
| INDEP. | 5 | — 3 | = 2 | x \$ 200.00 | = | \$ | 400.00 | |
| | | | | ***Multi dependent claim | | | | |
| FIRST PRESENTATION OF MULTIPLE DEP. CLAIM | | | | + \$ | CO*** | = | \$ | 0.00 |
| | | | | TOTAL ADDIT. FEE | | | | |
| | | | | \$ 550.00 | | | | |

Total additional fee for claims required \$550.00

FEE PAYMENT

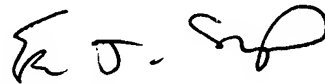
5. Attached is a check in the sum of \$670.00.

Charge any additional fees required by this paper or credit any overpayment in the manner authorized above.

A duplicate of this paper is attached.

FEE DEFICIENCY

6. If an additional fee for claims is required, charge Account No. 06-1910.



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